

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start		Rating **	A	Issue No.	57
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0501_01_f_2014_57				
Comment Code					
Inspector Comment					
District has the O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	58
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0501_01_s_2012_58				
Comment Code					
Inspector Comment					
RD 501 has emergency supplies in storage.					

No Photos

LM Start		Rating **	A	Issue No.	59
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0501_01_s_2012_59				
Comment Code					
Inspector Comment					
Crew members have been trained and are prepared for a flood.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	0.06	Rating **	M	Issue No.	42
LM End	0.08	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.253783 °	38.253525 °
				-121.602077 °	-121.602265 °
DWR ID	DWR_RD0501_01_f_2018_42				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0501_169_42_20181106_00062.jpg



View looking downstream at relatively thick trees on the land side slope (November 2018).

LM Start	0.14	Rating **	M	Issue No.	43
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.252790 °	38.252548 °
				-121.602705 °	-121.602805 °
DWR ID	DWR_RD0501_01_f_2018_43				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	0.31	Rating **	C	Issue No.	28
LM End	0.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.250340°	38.250340°
				-121.603133°	-121.603133°
DWR ID	DWR_RD0501_01_f_2017_28				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim trees at landside toe to allow inspection and access.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	0.47	Rating **	M	Issue No.	25
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.248025 °	38.247156 °
				-121.602761 °	-121.602669 °
DWR ID	DWR_RD0501_01_f_2018_25				
Comment Code					
Inspector Comment					
2017 Site ID: STM 21.2 R					
Status: Eroding New					
2017 Field Notes: Difficult to observe due to high vegetation.					
Site History: 2016 - Large slump section.					
2018: Difficult to see due to dense vegetation on water side toe					

No Photos

LM Start	0.70	Rating **	M	Issue No.	71
LM End	1.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.244667°	38.237470°
				-121.602967°	-121.604418°
DWR ID	DWR_RD0501_01_s_2012_71				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are rodents present in this area, district need to place bait stations in this area. Seveeral rodents observed on 10/24/17.					

No Photos

LM Start	0.76	Rating **	M	Issue No.	29	
LM End	1.01	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.243815 °		38.240257 °
				-121.603077 °		-121.603873 °
DWR ID	DWR_RD0501_01_f_2018_29					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Landside slope is covered in blackberry vines. Should be removed to allow inspection and access.						

Photo 1 of 1 : FA_2018_RD0501_169_29_20180925_00004.jpg



Landside slope is covered in blackberry vines. Should be removed to allow inspection and access.

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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	1.01	Rating **	M	Issue No.	46
LM End	1.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.240262°	38.237758°
				-121.603878°	-121.604453°
DWR ID	DWR_RD0501_01_f_2018_46				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.01	Rating **	M	Issue No.	31
LM End	1.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.240222 °	38.238918 °
				-121.603887 °	-121.604338 °
DWR ID	DWR_RD0501_01_f_2017_31				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Waterside vegetation should be thinned/removed to 20' from WS shoulder to allow inspection and access.					

Photo 1 of 1 : FA_2018_RD0501_169_31_20180925_00006.jpg



Waterside vegetation should be thinned/removed to 20' from waterside shoulder to allow inspection and access.

LM Start	2.07	Rating **	U	Issue No.	47
LM End	2.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.225070 °	38.225070 °
				-121.603827 °	-121.603827 °
DWR ID	DWR_RD0501_01_f_2018_47				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Deep gouges in the water side slope due to heavy foot traffic. LMA put sign up to deter foot traffic and it has been effective.					

Photo 1 of 2 : FA_2018_RD0501_169_47_20181106_00065.jpg



View of foot path that is more than 1 foot deep into the water side slope (November 2018).

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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	2.07	Rating **	U	Issue No.	47 (cont)	
LM End	2.07	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.225070 °		38.225070 °
				-121.603827 °		-121.603827 °
DWR ID	DWR_RD0501_01_f_2018_47					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						
Deep gouges in the water side slope due to heavy foot traffic. LMA put sign up to deter foot traffic and it has been effective.						

Photo 2 of 2 : FA_2018_RD0501_169_47_20181106_00066.jpg



View of two additional foot paths that are more than 1 foot deep into the water side slope (November 2018).

LM Start	2.24	Rating **	U	Issue No.	48
LM End	2.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.222598 °	38.222598 °
				-121.603330 °	-121.603330 °
DWR ID	DWR_RD0501_01_f_2018_48				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	2.41	Rating **	M	Issue No.	51
LM End	2.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.220323 °	38.220323 °
				-121.603937 °	-121.603937 °
DWR ID	DWR_RD0501_01_f_2018_51				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	2.55	Rating **	M	Issue No.	32
LM End	2.60	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.218470 °	38.217875 °
				-121.605105 °	-121.605532 °
DWR ID	DWR_RD0501_01_s _ 2012_32				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Continue trimming the trees at this location to at least five feet above the ground.					

No Photos

LM Start	2.67	Rating **	M	Issue No.	34
LM End	2.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.217030 °	38.216408 °
				-121.606303 °	-121.607057 °
DWR ID	DWR_RD0501_01_s _ 2012_34				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim the trees to at least five feet above the ground.					

No Photos

LM Start	2.83	Rating **	M	Issue No.	52
LM End	2.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.215255 °	38.214455 °
				-121.608158 °	-121.608783 °
DWR ID	DWR_RD0501_01_f _ 2018_52				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	3.02	Rating **	M	Issue No.	53
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.212803 °	38.212803 °	
			-121.609922 °	-121.609922 °	
DWR ID	DWR_RD0501_01_f_2018_53				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.07	Rating **	M	Issue No.	54
LM End	3.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.212072 °	38.210642 °	
			-121.610097 °	-121.610397 °	
DWR ID	DWR_RD0501_01_f_2018_54				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.26	Rating **	M	Issue No.	55
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.209402 °	38.209013 °	
			-121.610900 °	-121.611078 °	
DWR ID	DWR_RD0501_01_f_2018_55				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

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+ Issue Type
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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	3.48	Rating **	U	Issue No.	56
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.206375 °	38.206375 °
				-121.612258 °	-121.612258 °
DWR ID	DWR_RD0501_01_f_2018_56				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.59	Rating **	M	Issue No.	60
LM End	3.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.204952 °	38.204242 °
				-121.612835 °	-121.613082 °
DWR ID	DWR_RD0501_01_f_2018_60				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.73	Rating **	C	Issue No.	974
LM End	4.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.202997 °	38.197778 °
				-121.613450 °	-121.616080 °
DWR ID	DWR_RD0501_01_s_2012_974				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation has been cleared to 20 feet from crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	3.94	Rating **	A/W	Issue No.	33
LM End	4.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.200083 °	38.199057 °
				-121.614642 °	-121.615227 °
DWR ID	DWR_RD0501_01_f_2017_33				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Willows have been thinned to allow limited visibility. Should continue to reduce and/or remove this vegetation to increase visibility and access to slope and toe.					

No Photos

LM Start	4.38	Rating **	M	Issue No.	19
LM End	4.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.195332 °	38.195310 °
				-121.619749 °	-121.619801 °
DWR ID	DWR_RD0501_01_f_2017_19				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.64	Rating **	C	Issue No.	35
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194463 °	38.194463 °
				-121.624310 °	-121.624310 °
DWR ID	DWR_RD0501_01_f_2017_35				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Very large mounds of blackberry vines prohibit inspection and access. Should be removed.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	4.95	Rating **	C	Issue No.	977
LM End	4.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.195057 °	38.195068 °
				-121.629965 °	-121.630173 °
DWR ID	DWR_RD0501_01_s_2012_977				
Comment Code					
EQ : Equipment					
Inspector Comment					
Remove the equipment from the 10 foot easement.					

No Photos

LM Start	5.20	Rating **	C	Issue No.	36
LM End	5.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.194288 °	38.194288 °
				-121.634262 °	-121.634262 °
DWR ID	DWR_RD0501_01_f_2017_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Willows and blackberries are blocking inspection and access to toe. Should be thinned or removed.					

No Photos

LM Start	5.27	Rating **	C	Issue No.	65
LM End	5.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.193805 °	38.192457 °
				-121.635391 °	-121.637997 °
DWR ID	DWR_RD0501_01_f_2012_65				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild vegetation has been mowed to 20 feet from crown.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	5.39	Rating **	C	Issue No.	978
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.192878 °	38.192588 °
				-121.637332 °	-121.637802 °
DWR ID	DWR_RD0501_01_f_2013_978				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Some trimming of these willow trees is apparent, but should continue until inspection and access are restored.					

No Photos

LM Start	5.71	Rating **	C	Issue No.	24
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.190590 °	38.190246 °
				-121.642468 °	-121.643164 °
DWR ID	DWR_RD0501_01_s_2012_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild growth is cleared to 20 feet from crown.					

No Photos

LM Start	5.77	Rating **	M	Issue No.	21
LM End	5.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			38.190001 °	38.189311 °
				-121.643160 °	-121.643917 °
DWR ID	DWR_RD0501_01_f_2018_21				
Comment Code					
Inspector Comment					
2017 Site ID: STM 15.7 R					
Status: Eroding					
2017 Field Notes: No observed change.					
Site History: 2008 - Overstepped levee section with multiple small pockets of erosion 10 - 20 ft wide. 2013 - Site has fresh erosion and taller vertical sections.					

Photo 1 of 1 : FA_2018_RD0501_169_21_20181106_00069.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Steamboat Slough	Right	6.71	11/06/2018 11/06/2018	David Julian

LM Start	6.15	Rating **	M	Issue No.	40
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.186090 °	38.186090 °
				-121.648022 °	-121.648022 °
DWR ID	DWR_RD0501_01_f_2017_40				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	6.59	Rating **	M	Issue No.	23
LM End	6.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.184136 °	38.184040 °
				-121.655762 °	-121.656291 °
DWR ID	DWR_RD0501_01_s_2012_23				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	11/06/2018 11/06/2018	David Julian

LM Start	0.16	Rating **	M	Issue No.	17
LM End	0.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.186068 °	38.186068 °
				-121.659012 °	-121.659012 °
DWR ID	DWR_RD0501_02_f_2018_17				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0501_170_17_20181106_00042.jpg



View of thick vegetation at the top of the water side slope (November 2018).

LM Start	1.25	Rating **	M	Issue No.	28	
LM End	1.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			38.201143 °		38.201143 °
				-121.655169 °		-121.655169 °
DWR ID	21085					
Comment Code						
Inspector Comment						
FS_ID:44753						
DS_ID:21085						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 20-inch coated steel gravity drainage pipe through the levee, 15.5 feet below the crown. Pipe exposed along the waterside (WS) slope. Steel plate welded over end. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 1.4)].						
FS Date: 4/23/2015						

Photo 1 of 3 : UCIP_FA_2018_44753_73955.jpg



20-inch pipe with welded steel plate over end on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	11/06/2018 11/06/2018	David Julian

LM Start	1.25	Rating **	M	Issue No.	28 (cont)	
LM End	1.25	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			38.201143°	38.201143°	
				-121.655169°	-121.655169°	
DWR ID	21085					
Comment Code						
Inspector Comment						
FS_ID:44753 DS_ID:21085 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Hole rusted through pipe on WS end. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 20-inch coated steel gravity drainage pipe through the levee, 15.5 feet below the crown. Pipe exposed along the waterside (WS) slope. Steel plate welded over end. [Additional Reference(s): USACE Sacramento O&M Manual 105, April 1959, (HLM 1.4)]. FS Date: 4/23/2015						

Photo 2 of 3 : UCIP_FA_2018_44753_73954.jpg



Hole in pipe at WS toe.

LM Start	1.25	Rating **	M	Issue No.	28 (cont)
LM End	1.25	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP_FA_2018_44753_73953.jpg



Inside hole in pipe at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	11/06/2018 11/06/2018	David Julian

LM Start	1.73	Rating **	M	Issue No.	18
LM End	1.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.208030 °	38.209040 °
				-121.656052 °	-121.655575 °
DWR ID	DWR_RD0501_02_f_2018_18				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Remove vegetation from top 20' of water side slope					

Photo 1 of 1 : FA_2018_RD0501_170_18_20181106_00043.jpg



View looking upstream at vegetation on the water side shoulder (November 2018).

LM Start	2.69	Rating **	M	Issue No.	22
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.216332 °	38.216332 °
				-121.667945 °	-121.667945 °
DWR ID	DWR_RD0501_02_f_2018_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows from waterside shoulder					

No Photos

LM Start	2.90	Rating **	A/W	Issue No.	4
LM End	2.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.218890 °	38.218997 °
				-121.669934 °	-121.669988 °
DWR ID	DWR_RD0501_02_s_2012_4				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
No indications of rodent activity visible. Adjacent orchard may attract rodents, so area should be monitored.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Cache Slough	Left	3.56	11/06/2018 11/06/2018	David Julian

LM Start	3.41	Rating **	M	Issue No.	16
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.225823 °	38.226847 °
				-121.672837 °	-121.673027 °
DWR ID	DWR_RD0501_02_s_2012_16				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Trim up the trees on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	11/06/2018 11/06/2018	David Julian

LM Start	1.48	Rating **	M	Issue No.	28
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.244293 °	38.244293 °
				-121.657843 °	-121.657843 °
DWR ID	DWR_RD0501_03_f_2017_28				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin willows to allow inspection and access to landside slope and toe.					

Photo 1 of 1 : FA_2018_RD0501_171_28_20180925_00001.jpg



Trim/thin willows to allow inspection and access to landside slope and toe.

LM Start	1.56	Rating **	M	Issue No.	29
LM End	1.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.245445 °	38.245445 °
				-121.658035 °	-121.658035 °
DWR ID	DWR_RD0501_03_f_2017_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove berry vines at landside toe to allow inspection and access.					

Photo 1 of 1 : FA_2018_RD0501_171_29_20180925_00002.jpg



Remove berry vines at landside toe to allow inspection and access.

LM Start	1.89	Rating **	C	Issue No.	30
LM End	1.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.249428 °	38.249428 °
				-121.656310 °	-121.656310 °
DWR ID	DWR_RD0501_03_f_2017_30				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove/manage landside vegetation and berry vines to allow inspection and access to slope and toe.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	11/06/2018 11/06/2018	David Julian

LM Start	2.44	Rating **	M	Issue No.	32
LM End	2.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.255070 °	38.255070 °
				-121.651630 °	-121.651630 °
DWR ID	DWR_RD0501_03_f_2017_32				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick berry vines at landside toe to allow inspection and access.					

No Photos

LM Start	2.95	Rating **	M	Issue No.	47
LM End	3.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261617 °	38.261897 °
				-121.650220 °	-121.648820 °
DWR ID	DWR_RD0501_03_f_2018_47				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows from land side shoulder.					

No Photos

LM Start	2.98	Rating **	M	Issue No.	48
LM End	3.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.261630 °	38.261800 °
				-121.649702 °	-121.649017 °
DWR ID	DWR_RD0501_03_f_2018_48				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows from water side shoulder					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	11/06/2018 11/06/2018	David Julian

LM Start	3.55	Rating **	C	Issue No.	15
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.266666 °	38.266857 °
				-121.641475 °	-121.641280 °
DWR ID	DWR_RD0501_03_s_2012_15				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up tree on landside slope.					

No Photos

LM Start	3.62	Rating **	M	Issue No.	22
LM End	3.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.267485 °	38.267578 °
				-121.640667 °	-121.640507 °
DWR ID	DWR_RD0501_03_s_2012_22				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	3.68	Rating **	M	Issue No.	3
LM End	3.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.268218 °	38.268218 °
				-121.640418 °	-121.640418 °
DWR ID	DWR_RD0501_03_f_2017_3				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	11/06/2018 11/06/2018	David Julian

LM Start	3.75	Rating **	C	Issue No.	33
LM End	3.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.269187°	38.269187°
				-121.640775°	-121.640775°
DWR ID	DWR_RD0501_03_f_2017_33				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.47	Rating **	M	Issue No.	34
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.277918 °	38.281507 °
				-121.637670 °	-121.641595 °
DWR ID	DWR_RD0501_03_f_2017_34				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove berry vines on landside slope and toe to allow inspection and access.					

Photo 1 of 1 : FA_2018_RD0501_171_34_20180925_00006.jpg



Remove berry vines on landside slope and toe to allow inspection and access.

LM Start	4.89	Rating **	M	Issue No.	36
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.282028°	38.282028°
				-121.643067°	-121.643067°
DWR ID	DWR_RD0501_03_f_2017_36				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim tree to at least 5 feet above levee slope to allow inspection and access.					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	11/06/2018 11/06/2018	David Julian

LM Start	5.09	Rating **	C	Issue No.	37
LM End	5.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.284917 °	38.284917 °
				-121.643243 °	-121.643243 °
DWR ID	DWR_RD0501_03_f_2017_37				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim/thin large willow to allow inspection and access to landside slope and toe.					

No Photos

LM Start	5.11	Rating **	M	Issue No.	38
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.285115 °	38.285115 °
				-121.643227 °	-121.643227 °
DWR ID	DWR_RD0501_03_f_2017_38				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick berry vines from landside slope and toe to allow inspection and access.					

No Photos

LM Start	5.61	Rating **	M	Issue No.	49
LM End	5.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.289848 °	38.289848 °
				-121.641113 °	-121.641113 °
DWR ID	DWR_RD0501_03_f_2018_49				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA_2018_RD0501_171_49_20181106_00080.jpg



View of thick tree growth on the water side slope (November 2018).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 0501 Ryer Island

No Photos

Trim/thin trees on waterside to allow inspection and access.

Evidence of significant rodent activity at this location. Exterminate the rodents and backfill holes.

Page 7 of 8

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Miner Slough	Left	7.71	11/06/2018 11/06/2018	David Julian

LM Start	7.58	Rating **	M	Issue No.	43
LM End	7.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.286222 °	38.286222 °
				-121.608127 °	-121.608127 °
DWR ID	DWR_RD0501_03_f_2017_43				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	11/06/2018 11/06/2018	David Julian

LM Start	0.84	Rating **	M	Issue No.	11
LM End	0.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.274615 °	38.274615 °
				-121.602718 °	-121.602718 °
DWR ID	DWR_RD0501_04_f_2017_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove thick blackberries at landside toe to allow inspection and access.					

Photo 1 of 1 : FA_2018_RD0501_172_11_20180925_00001.jpg



Thick blackberries should be removed.

LM Start	1.24	Rating **	M	Issue No.	18
LM End	1.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.269173 °	38.269173 °
				-121.604215 °	-121.604215 °
DWR ID	DWR_RD0501_04_f_2018_18				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.48	Rating **	M	Issue No.	19
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.265862 °	38.265862 °
				-121.602698 °	-121.602698 °
DWR ID	DWR_RD0501_04_f_2018_19				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

Reclamation District No. 0501 Ryer Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 Sutter Slough	Right	2.28	11/06/2018 11/06/2018	David Julian

LM Start	2.15	Rating **	M	Issue No.	13
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.256275 °	38.255990 °
				-121.600933 °	-121.601015 °
DWR ID	DWR_RD0501_04_s_2012_13				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Thin out the trees along levee mile 2.15-2.17 and trim them up at least 5-foot above the ground.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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